

Application Serial No. 10/562,516  
Reply to Office Action of July 10, 2008

OCT 09 2008

PATENT  
Docket: CU-4639Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Listing of claims:

1 – 17. (Cancelled)

18. (Currently amended) A view angle control sheet comprising lens portions having trapezoidal shapes in cross section arranged at predetermined intervals, a wedge-shaped portion between the lens portions adjacent to each other is filled with the same material as that of the lens portions or with a material different from the lens portions, the wedge-shaped portion has a bottom surface on a screen image side while having a leading edge on an observer side with an outside light beam absorption effect, and the following relationship is held at least between a refractive index (N2) of a material constituting a slope portion of the wedge-shaped portion and a refractive index (N1) of a material constituting the lens portions:

$$N2 \leq N1$$

and when a ratio of the refractive indexes (N1) and (N2) is  $N2/N1=R$ , the following relationship is held further in the angle ( $\theta$ ) (degree) formed by the slope portion of the wedge-shaped portion and a normal line of the light beam outgoing plane:

$$-0.01 < R \cdot \cos \theta < 0.002, \text{ and}$$

$$3 \leq \theta \leq 20.$$

19. (Cancelled)

20. (Currently amended) A view angle control sheet according to claim 18 [[19]], wherein the following relationship is held further between the refractive indexes (N1) and (N2):

$$0.8N1 \leq N2 \leq 0.98N1$$

21. (Previously Presented) A view angle control sheet according to claim 18, wherein a cross-sectional shape of the wedge-shaped portion is a substantial isosceles triangle.

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22. (Previously Presented) A view angle control sheet according to claim 18, wherein one of angles formed by two slopes of the wedge-shaped portion and the normal line of the light beam outgoing plane is larger than the other.

23. (Previously Presented) A view angle control sheet according to claim 18, wherein the slope portion has a curved cross-sectional shape or a polygonal-line cross-sectional shape such that the screen image side differs from the observer side in an angle formed by the slope portion and an observer side surface.

24. (Previously Presented) A view angle control sheet according to claim 18, wherein light beam absorption particles are added to the wedge-shaped portion.

25. (Previously Presented) A view angle control sheet according to claim 24, wherein an average particle size of the light beam absorption particles is at least 1  $\mu\text{m}$  and the average particle size is not more than two-thirds of a width of the bottom surface.

26. (Previously Presented) A view angle control sheet according to claim 24, wherein an addition amount of the light beam absorption particle ranges from 10 to 50% by volume.

27. (Previously Presented) A view angle control sheet according to claim 18, wherein a function of any one of anti-reflection (AR), anti-static (AS), anti-glaring (AG), and a touch sensor or a plurality of functions thereof are imparted to at least one surface side.

28. (Previously Presented) A display device wherein a view angle control sheet according to claim 18 is bonded.

29. (Previously Presented) A display device wherein a view angle control sheet according to claim 18 is arranged in a crosswise stripe.

30. (Previously Presented) A display device wherein one view angle control

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sheet according to claim 18 is laminated on the observer side of a screen image source or two view angle control sheets according to claim 18 are laminated the observer side of the screen image source while being substantially orthogonal to each other.

31. (Previously Presented) A display device according to claim 30, wherein the width of the bottom surface is not more than 1/1.5 of a size of one pixel.